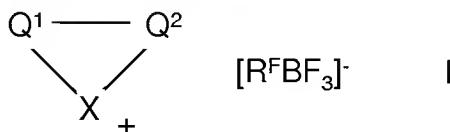


This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) ~~Compounds~~ A compound of the formula ~~IIa~~



in which

X denotes ~~NR<sup>1</sup>~~ or N(R<sup>1</sup>)<sub>2</sub>,

-Q<sup>1</sup>-Q<sup>2</sup>- denotes -CHR<sup>3</sup>-CHR<sup>4</sup>-CHR<sup>5</sup>-CHR<sup>6</sup>,

~~-CR<sup>2</sup>=CR<sup>3</sup>-CR<sup>4</sup>=CR<sup>5</sup>-CR<sup>6</sup>= or~~

~~---CR<sup>7</sup>=CR<sup>8</sup>-NR<sup>10</sup>-CR<sup>9</sup>=,~~

R<sup>1</sup> in each case, independently of one another, denotes alkyl having 1-10 C atoms or -(CH<sub>2</sub>)-R<sup>11</sup>,

R<sup>2</sup>R<sup>3</sup>-R<sup>6</sup> denote hydrogen or alkyl having 1-10 C atoms,

~~R<sup>7</sup>-R<sup>9</sup> denote hydrogen, alkyl having 1-10 C atoms or aryl,~~

~~R<sup>10</sup> denotes alkyl having 2-8 C atoms or -(CH<sub>2</sub>)-R<sup>11</sup>;~~

R<sup>11</sup> denotes perfluorinated or partially fluorinated alkyl having 1-8 C atoms; and

R<sup>F</sup> denotes perfluorinated alkyl having 2-8 C atoms; and

~~aryl denotes phenyl, perfluorinated phenyl, or phenyl or perfluorinated phenyl which is substituted by alkyl having 1-8 C atoms,~~

~~where the compounds~~

~~1-methyl-3-ethylimidazolium pentafluoroethyltrifluoroborate, 1-methyl-3-~~

~~ethylimidazolium (n-heptafluoropropyl)trifluoroborate and 1-methyl-3-~~

~~ethylimidazolium (n-nonafluorobutyl)trifluoroborate are excluded.~~

2. (Canceled)

3. (Currently Amended) Compounds according to Claim 1, ~~wherein~~ characterised in that the substituents R<sup>1</sup> are different.

4. (Canceled)

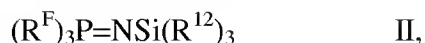
5. (Canceled)

6. (Canceled)

7. (Currently Amended) ~~Compounds~~ A compound according to claim 1, ~~characterised in that~~ wherein R<sup>F</sup> denotes perfluoroethyl, perfluoropropyl or perfluorobutyl.

8. (Currently Amended) ~~Compounds~~ A compound according to Claim 1 which is:  
N-methyl-N-butylpyrrolidinium pentafluoroethyltrifluoroborate,  
N-methyl-N-hexylpyrrolidinium pentafluoroethyltrifluoroborate, or  
N-methyl-N-octylpyrrolidinium pentafluoroethyltrifluoroborate,  
~~1-methyl-3-butylimidazolium pentafluoroethyltrifluoroborate,~~  
~~1-methyl-3-hexylimidazolium pentafluoroethyltrifluoroborate,~~  
~~or 1,2-dimethyl-3-butylimidazolium pentafluoroethyltrifluoroborate.~~

9. (Currently Amended) ~~Process~~ A process for the preparation of a ~~compounds~~ compound according to claim 1, ~~characterised in that~~  
~~in the first step, comprising reacting~~ a compound of the formula II

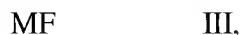


in which

R<sup>F</sup> in each case, independently of one another, denotes perfluorinated alkyl having 2-8 C atoms, and

R<sup>12</sup> in each case, independently of one another, denotes alkyl having 1-8 C atoms, alkoxy having 1-8 C atoms, cycloalkyl having 3-7 C atoms, halogen or aryl,

~~is reacted~~ with a fluoride of the formula III



in which

M is ammonium, alkali metal or alkaline earth metal or a metal from group 11 or 12,

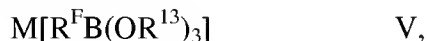
and a boric acid ester of the formula IV



in which

R<sup>13</sup> in each case, independently of one another, denotes alkyl having 1-8 C atoms or aryl,

and ~~the reacting a resultant salt of the~~ formula V



in which M, R<sup>F</sup> and R<sup>13</sup> have one of the above-mentioned meanings,

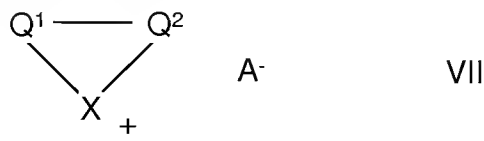
~~is reacted, in the second step,~~ with HF,

and ~~the reacting a resultant salt of the~~ formula VI



in which R<sup>F</sup> is as defined above,

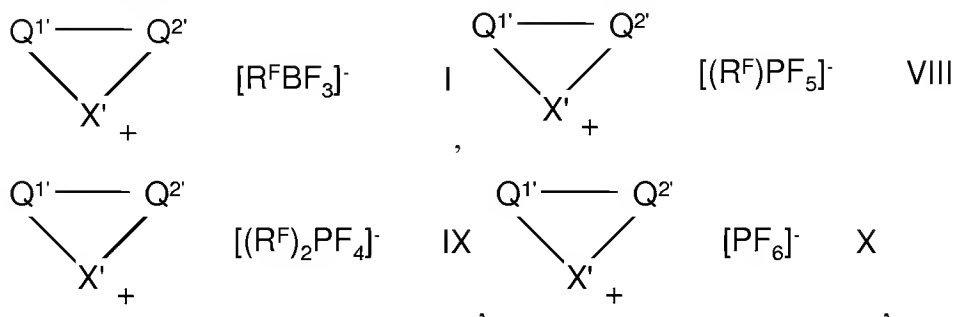
~~is reacted, in the third step,~~ with a compound of the formula VII



in which X and -Q<sup>1</sup>-Q<sup>2</sup>- are as defined for the formula I in ~~Claim~~ Claims 1 to 6, and

A<sup>-</sup> denotes alkylsulfate, alkylsulfonate, trifluoromethanesulfonate, tetrafluoroborate, acetate, trifluoroacetate, bis(perfluoroalkyl)phosphinate, F<sup>-</sup>, HF<sub>2</sub><sup>-</sup>, Cl<sup>-</sup>, Br<sup>-</sup> or I<sup>-</sup>.

10. (Currently Amended) ~~A mixture~~ Mixture of the salts at least one salt of the formula I with at least one salt of the formulae VIII, IX and X.



where

X,  $-Q^1-Q^2-$  and  $R^F$  have the meaning indicated in Claim 1,

$X'$  is  $NR^1$  or  $N(R^1)_2$ ,

$Q^1-Q^2-$  denotes  $-CHR^3-CHR^4-CHR^5-CHR^6-$ ,

$-CR^2=CR^3-CR^4=CR^5-CR^6-$  or

$-CR^7=CR^8-NR^{10}-CR^9-$ ,

$R^2-R^6$  denote hydrogen or alkyl having 1-10 C atoms,

$R^7-R^9$  denote hydrogen, alkyl having 1-10 C atoms or aryl,

$R^{10}$  denotes alkyl having 2-8 C atoms or  $-(CH_2)-R^{11}$ , aryl

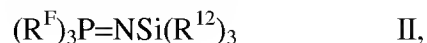
denotes phenyl, perfluorinated phenyl, or phenyl or perfluorinated phenyl which is substituted by alkyl having 1-8 C atoms.

11. (Currently Amended) ~~Mixture~~ A mixture according to Claim 10, characterised in that it comprises comprising 50-75 mol% of compounds of the formula I and 25-50 mol% of compounds of the formulae VIII, IX and/or X, where X,  $-Q^1-Q^2-$  and  $R^F$  denotes perfluorinated alkyl having 2-8 C atoms.

12. (Currently Amended) ~~Use of the compounds according to Claim 1 as~~ An ionic liquid liquid containing a compound according to Claim 1.

13. (Canceled)

14. (Currently Amended) ~~A compound~~Compounds of the formula II



in which

$R^F$  in each case, independently of one another, denotes perfluorinated alkyl having 1-8 C atoms, and

$R^{12}$  in each case, independently of one another, denotes alkyl having 1-8 C atoms, alkoxy having 1-8 C atoms, cycloalkyl having 3-7 C atoms, halogen or aryl.

15. (Currently Amended) ~~A compound~~Compounds according to Claim 14,

~~characterised in that~~wherein  $R^F$  denotes perfluorinated  $C_1$ - $C_4$ -alkyl.

16. (Currently Amended) ~~A compound~~Compounds according to Claim 14,

~~characterised in that~~wherein all three substituents  $R^F$  are identical.

17. (Currently Amended) ~~A compound~~Compounds according to Claim 14,

~~characterised in that~~wherein  $R^{12}$  in each case, independently of one another, denotes alkyl having 1-8 C atoms.

18. (Canceled)